5

10

15

20

## **ABSTRACT**

The present application provides a purified human protein, DNA fragment encoding the protein, expression vector for the DNA fragment, various cells transformed with the expression vector, and antibody against the protein. The purified protein in this invention is useful as a medicinal or as an antigen for manufacturing the antibody against the Further, the protein is useful as a search reagent for elucidating the intracellular protein network or as a protein source for screening such a protein as binding with a small molecule medicinal. The human cDNA of this invention is useful as a probe for gene diagnosis or as a gene source for gene therapy. Further, it can be also used as a gene source for mass production of the protein encoded by the cDNA. The expression vector being capable of translating in vitro or expressing the DNA within the host cell can be used for producing the human protein of this invention in vitro or within various host cells. The cells carrying the gene and expressing excessively it can be utilized for detecting the corresponding receptors and ligands or screening new small molecule medicinal or the like. The antibody against the protein of this invention can be used as a means for purifying the protein or for examining an expression level and localization site of the intracellular protein.